

13 side of the valve body opposite the motor (9) ~~side~~ and in series with the inlet conduit (6);

14 wherein

15 the valve spindle (10,10a) is a one-piece stem actuated directly by the motor for its
16 linear movement in an initial axial direction, extending from the motor and pushing the
17 safety valve (14,15) to open it initially, and in a second axial direction (e), retracting for the
18 raising of at least said modulating cut-off member (11);

19 safety cut-off means (21-24) to prevent the flow of gas towards any of the outlet
20 conduits (7,8,20) in case the movement of the spindle (10) is locked because of the motor,
21 wherein said cut-off means are housed in ~~this~~ the central flow conduit (5) and are ~~drawn~~
22 operated by the spindle (10), in a position between the inlet conduit (6) and the outlet
23 conduits ~~(7,8)~~ (7, 8, 20), whereby in it's a forward movement (e) of the spindle (10) the
24 safety cut-off means (21-24) is separated from the safety magnetic assembly (14) and, as
25 the flame safety valve is open, the flow of gas to any of the outlet conduits ~~(7,8)~~ (7, 8, 20),
26 is kept shut off.

1 2.- (Currently amended) A motor-operated valve for regulating a gas flow according
2 to claim 1, wherein the safety cut-off ~~members~~ means (21-24) comprise a cut-off member
3 (21), resting on a valve seat (22) interposed in the central flow conduit (5) downstream of
4 the gas flow modulating cut-off member (11), whereby when the spindle (10) is separated
5 from the magnetic assembly (14), as the flame safety valve (14,15) is open, the safety cut-
6 off member (21) is drawn by the valve spindle irrespective of a position of the flow
7 modulating cut-off member (21).

1 3.- (Currently amended) A motor-operated valve for regulating a gas flow according
2 to claim 1, wherein the safety cut-off members ~~(5a, 21-24)~~ means (21-24) comprise a cut-
3 off member (21), resting on a valve seat (22), interposed in the central flow conduit (5) by
4 means of the pressure of a return spring which has a compression coefficient lower than
5 that of the return spring (17) of the cut-off member (11) for regulating the gas flow (3),
6 whereby the safety cut-off member (21') is raised by the forward movement (e) of the
7 spindle (10), while the regulating cut-off member (11) remains ~~up against its~~ in position
8 against the valve seat (22).

1 4.- (Currently amended) A motor-operated valve for regulating a gas flow adapted for
2 the supply of a main gas flow and a pilot gas flow to an environmental heating appliance,
3 comprising:

4 a valve body (4) with a gas inlet conduit (6), a central flow conduit (5), extended
5 axially in the valve body, and a number of gas outlet conduits (7,8) transverse to said
6 central flow conduit;

7 a valve spindle (10, 10a) ~~sliding that slides~~ linearly along ~~this the~~ the central flow conduit
8 (5) and at least one cut-off member (11) ~~of the lift type~~ coupled to the valve spindle (10)
9 to modulate a gas flow (3) directed to a main outlet conduit (8);

10 a motor (9) coupled on the valve body for actuating the valve spindle and ~~its~~ axial
11 movement of the valve spindle in both directions;

12 a flame safety valve (14, 15) provided with a magnetic assembly (14) located on one
13 side of the valve body opposite the motor (9) side and in series with the inlet conduit (6);

14 wherein the valve spindle (10, 10a) is a one-piece stem actuated directly by the motor

15 for its linear movement in an initial axial direction, extending from the motor and pushing
16 the safety valve (14,15) to open it the safety valve (14, 15) initially, and in a second axial
17 direction (e), retracting for the raising of at least said modulating cut-off member (11);

18 said central flow conduit, comprising two intermediate portions (5a,5b) of conduit
19 arranged in series, each of intermediate portion (5a,5b) having a different diameter from
20 ~~the other~~, between the flame safety valve (14,15) and the modulating cut-off member (11),
21 wherein the smaller-diameter intermediate conduit portion (5a), is downstream of both gas
22 flow outlet conduits (7,8);

23 safety cut-off means (5a, 21-24, 21'-22')) to prevent the flow of gas towards the outlet
24 conduits (7,8,20) in case the movement of the spindle (10) is locked because of the motor,
25 wherein said cut-off means are housed in ~~this portion of~~ the smaller-diameter intermediate
26 conduit portion (5a) and are drawn by the spindle (10), whereby, as the flame safety valve
27 is open, the flow of gas to any of the outlet conduits (7,8,20) is kept shut off.

1 5.- (Currently amended) A motor-operated valve for regulating a gas flow according
2 to claim 4, wherein said safety cut-off members (5a, 21-24, 21'-22') comprise a flat disc
3 (21') attached to the valve shaft and encircled by a sealing O-ring (22'), ~~and it slides snugly~~
4 the flat disc sliding in said smaller-diameter conduit portion (5a), located ~~adjacently~~
5 adjacent to and downstream of the flame safety valve (14,15).